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The AAA Deng, et al. Expires April 4, 2007 [Page 5] Internet-Draft Handover Key Hierarchy for HMIPv6 Oct 2006 **server** will validate the **authentication** ...
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Definition of: AAA **server** (**Authentication** Authorization Accounting **server**) A network **server** used for access control. **Authentication** identifies the user. ...
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1 [Best poster papers from MobiHoc 2002: Virtual operator based AAA in wireless LAN hot spots with ad-hoc networking support](#)



Junbiao Zhang, Jun Li, Stephen Weinstein, Nan Tu

June 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6 Issue 3

Publisher: ACM Press

Full text available:  pdf(180.11 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Sound and effective authentication, authorization and accounting (AAA) schemes for convenient and secure mobile wireless accesses are of great importance given the increased popularity and business opportunities in public wireless LAN hot spots. One possible scheme, which uses the mobile users' service providers as the single point of contact for all AAA transactions, is emerging as a very promising solution. We refer to such service providers as "virtual operators". In this paper, we discuss va ...


2 [AAA, security and privacy: Authentication, authorization and accounting \(AAA\) in hybrid ad hoc hotspot's environments](#)



Hassnaa Moustafa, Gilles Bourdon, Yvon Gourhant

September 2006 **Proceedings of the 4th international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '06**

Publisher: ACM Press

Full text available:  pdf(367.56 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Wireless LAN (WLAN) is rapidly growing as a popular technology for ubiquitous communication, where Internet access is being a standard commodity. The growing demand in WLAN technological development is to provide high quality and secure Internet access to mobile users using their portable devices. Nevertheless, WLAN is still restrictive, as it requires the presence of mobile users in the communication range of access points. Moreover, the security of this network is posing a major challenge for ...


Keywords: 802.11i, AAA, hybrid ad hoc networks, security, wireless LAN

3 [AAA architecture for mobile IPv6 based on WLAN](#)

R. C. Wang, R. Y. Chen, Han-Chieh Chao

September 2004 **International Journal of Network Management**, Volume 14 Issue 5

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(177.10 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Mobility support for Internet devices is quite important for consumer electronics. The number of the hand-held devices is growing quickly. However, there are not enough IP addresses for the number of the rapidly growing devices in the All-IP generation. Internet Protocol version 6 (IPv6) was therefore adopted to solve these problems. Our purposed structure is based on IEEE 802.11. However, IEEE 802.11 has a serious security drawback. Further, from the Internet Service Providers' point of view, a ...

4 [A new policy-aware terminal for QoS, AAA and mobility management](#)

Hakima Chaouchi

March 2004 **International Journal of Network Management**, Volume 14 Issue 2

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(302.42 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)


Policy-based management has been widely studied in recent years. The Internet Engineering Task Force (IETF) has recently introduced the policy-based networking as a means of managing IP networks according to the new constraints defined in the network, such as the guarantee of the quality of service (QoS). Network management based on policies, is modelled as a state machine, which moves from one state to another according to the enforced policy. The IETF policy-based networking is defined for app ...

5 Signalling analysis in integrated 4G networks

Hakima Chaouchi, Ivan Armuelles, Ivan Ganchev, Máirtín O'Droma, Nino Kubinidze

January 2006 **International Journal of Network Management**, Volume 16 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(517.12 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Scarce radio resources and the ambition to increase the number of mobile customers with a guarantee of service are pushing mobile communication systems from homogeneous non-service convergent 2G and convergent-service 2.5G and 3G wireless systems to heterogeneous integrated and convergent service 4G networks. This evolution has had several consequences from network design, control and service management points of view. In the emerging integrated 4G networks one of the issues is the signalling of ...

6 M2-B: computer and network security symposium: Improved EAP keying framework for a secure mobility access service

Rafa Marin Lopez, Antonio Gomez Skarmeta, Julien Bournelle, Maryline Laurent-Maknavicus, Jean Michel Combes

July 2006 **Proceeding of the 2006 international conference on Communications and mobile computing IWCMC '06**

Publisher: ACM Press

Full text available:  pdf(134.94 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Users roaming is an important feature to be provided by current ISPs. The goal is to allow users to access to the Internet from everywhere without the need to have multiple subscriptions. A suitable authentication and key distribution mechanism between different domains involved is required to provide a secure network access service. The IETF solution for this is the Extensible Authentication Protocol (EAP) which supports various authentication methods while defining a keying framework. However, ...


Keywords: EAP, access control, authentication, key hierarchy, key management, mobility, roaming

7 Security and privacy: GSABA: a generic service authorization architecture

Florian Kohlmayer, Hannes Tschofenig, Rainer Falk, Rafa Marin Lopez, Santiago Zapata Hernandez, Pedro García Segura, Antonio F. Gómez Skarmeta

December 2006 **Proceedings of first ACM/IEEE international workshop on Mobility in the evolving internet architecture MobiArch '06**

Publisher: ACM Press

Full text available:  pdf(472.28 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bootstrapping refers to the process of creating state (typically security associations, configuration and authorization information) between two or more entities based on a trust relationship between a trusted third party and two or more entities. The term bootstrapping has been recently introduced to denote solutions to configuration problems, such as those present in Mobile IP. This paper describes a novel service authorization and bootstrapping architecture in order to distribute keying mater ...

Keywords: AAA, enable, mobile IP, security, service authorization


8 A 4G generic ANWIRE system and service integration architecture

Ivan Ganchev, Máirtín S. O'Droma, Matthias Siebert, Faouzi Bader, Hakima Chaouchi, Ivan Armuelles, Isabelle Demeure, Fintan McEvoy

January 2006 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 10

Issue 1

Publisher: ACM Press

Full text available:  pdf(1.09 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper proposes a 4G 'Generic ANWIRE system and service Integration Architecture' (GAIA). The relationship between the different GAIA domains is explained and interaction between their functional entities is shown in order to explore various GAIA properties. An overview of the relevant topics related to the GAIA architecture and its respective elements is given. A well-based summary on system integration efforts of previous projects is provided as a basis for deriving of various requirements ...

9 Ongoing research on QoS policy control schemes in mobile networks

Haihong Zheng, Marc Greis

June 2004 **Mobile Networks and Applications**, Volume 9 Issue 3

Publisher: Kluwer Academic Publishers

Full text available:  pdf(189.56 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the ongoing research in IETF on the QoS policy control schemes in the Internet, in particular for Quality of Service (QoS) in IP based mobile networks. The paper gives a general introduction to policy control and then discusses special requirements for policy control in mobile networks. A policy control framework, which matches these requirements, is presented. A detailed analysis and description of the protocols used in the policy control framework is given, followed by som ...

Keywords: AAA, QoS, mobile network, policy control

10 Security: Fast pre-authentication based on proactive key distribution for 802.11 infrastructure networks

Mohamed Kassab, Abdelfettah Belghith, Jean-Marie Bonnin, Sahbi Sassi

October 2005 **Proceedings of the 1st ACM workshop on Wireless multimedia networking and performance modeling WMuNeP '05**

Publisher: ACM Press

Full text available:  pdf(398.42 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recently, user mobility in wireless data networks is increasing because of the popularity of portable devices and the desire for voice and multimedia applications. These applications, however, require fast handoffs among base stations to maintain the quality of the connections. Re-authentication during handoff procedures causes a long handoff latency which affects the flow and service quality especially for multimedia applications. Therefore minimizing re-authentication latency is crucial in ord ...


Keywords: IAPP, IEEE 802.11i, WiFi, handover, pre-authentication, re-authentication

11 Global internet roaming with ROAMIP

Zoltán R. Turányi, Csanád Szabó, Eszter Kail

July 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 3

Publisher: ACM Press

Full text available:  pdf(1.19 MB)Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)


Reachability and session continuity represent two distinct services that global mobility protocols should provide. Reachability is the possibility for Internet hosts to initiate sessions to mobile users. Session continuity refers to mechanisms that ensure that active transport or application layer sessions are not broken due to mobility. We present ROAMIP, a global mobility architecture that uses application layer solutions for global reachability and reuses transparent Mobile IP tunnelling mech ...

12 Technical Session: How to retire a server without stranding your customers: a small migration at the university of oregon

Christopher Jones

October 2001 **Proceedings of the 29th annual ACM SIGUCCS conference on User services SIGUCCS '01**

Publisher: ACM Press

Full text available:  pdf(95.68 KB)Additional Information: [full citation](#), [abstract](#), [index terms](#)

A small support staff with regular staff turnover will eventually be faced with upgrading or

replacing a service that was installed and maintained by a staff member who has left. Often, these services can be maintained on a superficial level, but at some point, a major change will be required. The School of Architecture and Allied Arts at the University of Oregon consists of nine departments and programs with 5000 students, 160 faculty, and a few dozen staff. Two full-time computing support staff ...

Keywords: e-mail, migration, new server, new service, roll-out, virtual hosts, web hosting

13 Conferencing: Ubiquitous computing using SIP



Stefan Berger, Henning Schulzrinne, Stylianos Sidiroglou, Xiaotao Wu

June 2003

Proceedings of the 13th international workshop on Network and operating systems support for digital audio and video NOSSDAV '03

Publisher: ACM Press

Full text available: pdf(96.16 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In the past decade, there have been numerous efforts in ubiquitous computing, making computational resources or communication more widely available. We believe that it is time to move to a global-scale ubiquitous computing system that is securable, administered by multiple independent administrators and integrates off-the-shelf hardware and software. We are developing such a system based on the Session Initiation Protocol (SIP), with Bluetooth devices for location sensing and Service Location Pr ...

Keywords: SIP, SLP, bluetooth, location based services, scalability, ubiquitous computing

14 Best papers from WMASH 2004: Secure universal mobility for wireless Internet



Ashutosh Dutta, Tao Zhang, Sunil Madhani, Kenichi Taniuchi, Kensaku Fujimoto, Yasuhiro Katsube, Yoshihiro Ohba, Henning Schulzrinne

July 2005

ACM SIGMOBILE Mobile Computing and Communications Review, Volume 9

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Publisher: ACM Press

Full text available: pdf(1.47 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The advent of the mobile wireless Internet has created the need for seamless and secure communication over heterogeneous access networks such as IEEE 802.11, WCDMA, cdma2000, and GPRS. An enterprise user desires to be reachable while outside one's enterprise networks and requires minimum interruption while ensuring that the signaling and data traffic is not compromised during one's movement within the enterprise and between enterprise and external networks. We describe the design, implementation ...

15 Mobile IP and the IETF



Charles E. Perkins

January 2000

ACM SIGMOBILE Mobile Computing and Communications Review, Volume 4

Issue 1

Publisher: ACM Press

Full text available: pdf(691.83 KB)

Additional Information: [full citation](#), [index terms](#)

16 Roaming and service management in public wireless networks using an innovative policy management architecture

Idir Fodil, Guy Pujolle

March 2005

International Journal of Network Management, Volume 15 Issue 2

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(534.21 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Nowadays, public wireless local area networks (WLANs), commonly called hotspots, are being largely deployed by WISPs (Wireless Internet Service Providers) as a means of offering ubiquitous Internet access to their customers. Although a substantial number of solutions have been proposed to improve security, mobility and quality of service on the wireless area, access network management which is mandatory remains a very significant concern. This paper describes RSM-WISP, a new management architectu ...

17

Technical Session: Crossing the bridge while you build it: a smooth migration to new

servers and services

William R. Anderson, Larry Fields, Thelma Simons, Kathy Pribbenow, Christopher Jones
October 2001 **Proceedings of the 29th annual ACM SIGUCCS conference on User services
SIGUCCS '01**

Publisher: ACM Press

Full text available: pdf(153.78 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper accompanies a panel discussion by members of the computing support staff at Georgetown University, The University of Kansas, and The University of Oregon. Each school migrated its customers to a new e-mail system; some of the migrations included other services, such as web hosting and calendaring. Georgetown University migrated from a GroupWise mail and calendaring system and UNIX mail to Netscape (now iPlanet) Messaging Server and Steltor CorporateTime. Computing support staff learned ...

Keywords: Microsoft Exchange, Microsoft Outlook, calendar, e-mail, migration, new server, new service, panel, roll-out, software deployment

18 M2-D: next generation mobile networks symposium: Service delivery over
heterogeneous wireless systems: networks selection aspects



Farooq Bari, Victor Leung

July 2006 **Proceeding of the 2006 international conference on Communications and
mobile computing IWCMC '06**

Publisher: ACM Press

Full text available: pdf(257.55 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The problem of service delivery over heterogeneous wireless access networks is quite complex and is a topic of ongoing research. Although a unifying aspect of current packet based wireless access technologies is that all of them support IP transport, a common architecture that would allow a mix of autonomous heterogeneous wireless networks to coexist and inter work to provide ubiquitous service using the best network for service delivery at any location does not currently exist. Such a common ar ...

Keywords: architecture, heterogeneous wireless access networks, internetworking network selection, roaming, service delivery

19 Accounting and management: Generic accounting configuration management for
heterogeneous mobile networks



Frank Eyermann, Peter Racz, Burkhard Stiller, Christian Schaefer, Thomas Walter

September 2005 **Proceedings of the 3rd ACM international workshop on Wireless mobile
applications and services on WLAN hotspots WMASH '05**

Publisher: ACM Press

Full text available: pdf(252.81 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Accounting performed by network and service providers covers the tasks of determining, collecting, and evaluating information on the service usage of their customers. This information forms the basis of the subsequent charging process. For performing these tasks in case of heterogeneous mobile networks a generic configuration management, specifically tailored at the provisioning of various Internet services is needed. This work defines a role model covering all participating entities of a distri ...

Keywords: accounting, accounting architecture, charging, hand-over, mobile network operators, roaming, single bill

20 Wireless LAN security and laboratory designs

Yasir Zahur, T. Andrew Yang

January 2004 **Journal of Computing Sciences in Colleges**, Volume 19 Issue 3

Publisher: Consortium for Computing Sciences in Colleges

Full text available: pdf(181.24 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

For the past couple of years, increasing number of wireless local area networks (WLANs), based on the IEEE 802.11 protocols, have been deployed in various types of locations, including homes, schools, airports, business offices, government buildings, military facilities, coffee shops, book stores, as well as many other venues. One of the primary advantages offered by WLAN is its ability to provide untethered connectivity to portable devices, such as wireless laptops and PDAs. In some remote comm ...


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Relevance scale ☐ ☐ ☐ ☐ ☐21 [Hiperlan/2 public access interworking with 3G cellular systems](#)

Stephen McCann, Helena Flygare

January 2004 **Wireless Networks**, Volume 10 Issue 1

Publisher: Kluwer Academic Publishers

Full text available: pdf(196.64 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper discusses some of the recent work within the Broadband Radio Access Network (BRAN) project of ETSI (European Telecommunications Standards Institute), regarding the issue of establishing an interworking solution between Hiperlan/2 and 3G cellular systems and introduces the concept of Hiperlan/2 Public Access. So far the BRAN project has identified several fundamentally different types of possible solutions whose differences lie within the level of integration. The most essential require ...

Keywords: 3G, BRAN, ETSI, Hiperlan/2, WIG, interworking, public access22 [Data and Content: MarconiNet supporting streaming media over localized wireless multicast](#)

Ashutosh Dutta, Subir Das, Wai Chen, Anthony McAuley, Henning Schulzrinne, Onur Altintas

September 2002 **Proceedings of the 2nd international workshop on Mobile commerce WMC '02**

Publisher: ACM Press

Full text available: pdf(464.72 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Flexible multi-media streaming such as advertisement insertion, location based services, mobility and wireless access are vital components that make existing Internet Radio and TV networks more attractive for the roaming users. All of these applications also provide added value to telematics, and military usage including coordination, education, situation awareness, distributed simulation, battlefield communication and multi-player games. While content distribution over a wired network can be rea ...

Keywords: join/leave latency, marconinet, multicast, streaming23 [Mobile IP and the IETF](#)

Charles E. Perkins

July 1999

ACM SIGMOBILE Mobile Computing and Communications Review, Volume 3, Issue 3

Publisher: ACM Press

Full text available: pdf(466.87 KB)


Additional Information: [full citation](#), [index terms](#)24 [Mobility, roaming, and handoff: Secure universal mobility for wireless internet](#)

Ashutosh Dutta, Tao Zhang, Sunil Madhani, Kenichi Taniuchi, Kensaku Fujimoto, Yasuhiro Katsube, Yoshihiro Ohba, Henning Schulzrinne

October 2004 **Proceedings of the 2nd ACM international workshop on Wireless mobile**

applications and services on WLAN hotspots WMASH '04

Publisher: ACM Press

Full text available:  pdf(1.10 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The advent of the mobile wireless Internet has created the need for seamless and secure communication over heterogeneous access networks such as IEEE 802.11, WCDMA, cdma2000, and GPRS. An enterprise user desires to be reachable while outside one's enterprise networks and requires minimum interruption while ensuring that the signaling and data traffic is not compromised during one's movement within the enterprise and between enterprise and external networks. We describe the design, implementat ...

Keywords: 802.11, handoff, hot spot, mobile IP, mobility, security

25 **Wireless broadband services and network management system in KT**

Dong-Hyun Lee, Hwan-Joong Lee, Young-Woo Lee, Dong-Houn Shin

November 2006 **International Journal of Network Management**, Volume 16 Issue 6

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(778.41 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As mobile devices such as laptops and PDAs are becoming widely available, customers' needs for portable Internet services are increasing. KT has been preparing to launch a WiBro (Mobile WiMax) service that is a high-speed, low-cost, wireless Internet service based on the IEEE 802.16e standard. WiBro Network Management System (WiBro-NMS) has also been developed for the integrated management of WiBro network elements such as ACR, L2 switch, RAS and repeater. Because there is no standard management ...

26 **Posters: An end-to-end simulator for an open broadband access network**

Alessandro Basile, Stefano Conti, Fabio Galliano, Fred Daneshgaran, Marina Mondin, Massimiliano Laddomada

October 2006 **Proceedings of the international workshop on Mobility management and wireless access MobiWac '06**

Publisher: ACM Press

Full text available:  pdf(297.08 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Open Broadband Access Network (OBAN)¹ project introduces an innovative approach to establish a broadband mobile network in line with present B3G visions. This paper describes the end-to-end OBAN simulator that has been developed with the aim to evaluate and quantitatively measure performance related to user's mobility, in a scenario where security is vital and there is need to be able to perform fast handover while ensuring security. A set of meaningful performance metrics is identi ...

Keywords: CARD, EAP, Kerberos Ticket, OBAN, OPNET

27 **Regulating service access and information release on the Web**

Piero Bonatti, Pierangela Samarati

November 2000 **Proceedings of the 7th ACM conference on Computer and communications security CCS '00**

Publisher: ACM Press

Full text available:  pdf(599.91 KB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: access control, digital certificate, privacy

28 **Design of a distributed computer security lab**

T. Andrew Yang, Kwok-Bun Yue, Morris Liaw, George Collins, Jayaraman T. Venkatraman, Swati Achar, Karthik Sadasivam, Ping Chen

October 2004 **Journal of Computing Sciences in Colleges**, Volume 20 Issue 1

Publisher: Consortium for Computing Sciences in Colleges

Full text available:  pdf(459.84 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Across the US and the rest of the world, there exists a lack of computer security components in many CS/IT curricula. For those programs that do have such components in computer security, a common difficulty is to integrate "real-world" labs into the courses, in order to provide hands-on experiences to the learners. Due to concerns for

security breaches and network hacking, system administrators are reluctant to allow computer security labs involving network sniffing, virus scripting, etc. to be ...

29 Regular features: Mobile IP at IETF



Charles E. Perkins

October 2003 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 7 Issue 4

Publisher: ACM Press

Full text available: pdf(76.95 KB)

Additional Information: [full citation](#), [references](#)

30 Delivering live multimedia streams to mobile hosts in a wireless internet with multiple content aggregators

Cristian Hesselman, Henk Eertink, Ing Widya, Erik Huizer

June 2005 **Mobile Networks and Applications**, Volume 10 Issue 3

Publisher: Kluwer Academic Publishers

Full text available: pdf(1.44 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We consider the distribution of channels of live multimedia content (e.g., radio or TV broadcasts) via multiple content aggregators. In our work, an aggregator receives channels from content sources and redistributes them to a potentially large number of mobile hosts. Each aggregator can offer a channel in various configurations to cater for different wireless links, mobile hosts, and user preferences. As a result, a mobile host can generally choose from different configurations of the same chan ...

Keywords: mobility, multimedia content distribution, wireless networking

31 Vision & challenges: Global growth of open access networks: from warchalking and connection sharing to sustainable business



Roberto Battiti, Renato Lo Cigno, Fredrik Orava, Bjorn Pehrson

September 2003 **Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '03**

Publisher: ACM Press

Full text available: pdf(226.85 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper discusses the evolution of W-LAN starting from the mere extension of LAN services indoors, through the widespread diffusion of outdoors coverage with free and often un-authorized access, to the business models supporting their evolution to public coverage HotSpots. Besides, the idea of Open Access Networks (OANs) going beyond wireless HotSpots to become a shared access infrastructure fostering service operators competition is introduced and discussed. The concept of Open Access Network ...

Keywords: 802.11, WiFi, mobility, open access networks

32 Fast Handoff in Mobile Virtual Private Networks

Jyh-Cheng Chen, Jui-Chi Liang, Siao-Ting Wang, Shin-Ying Pan, Yin-Shin Chen, Ying-Yu Chen

June 2006 **Proceedings of the 2006 International Symposium on on World of Wireless, Mobile and Multimedia Networks WOWMOM '06**

Publisher: IEEE Computer Society

Full text available: pdf(587.83 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper presents the dynamic external Home Agent (x-HA) assignment, fast authentication, and preauthentication in mobile Virtual Private Networks (VPNs). The proposed architecture is based on the mobile VPN proposed by the IETF, which adopts Mobile IP and IPsec. The IETF solution, however, leads to two questions: where should we put the x-HA and how should we trust the x-HA? We propose to assign the x-HA dynamically so the handoff latency and end-to-end latency could be reduced significantly.

...


33 Deployment and testbeds: Enhancement of a WLAN-based internet service in Korea



Youngkyu Choi, Jeongyeup Paek, Sunghyun Choi, Go Woon Lee, Jae Hwan Lee, Hanwook Jung

September 2003 **Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '03**

Publisher: ACM Press

Full text available:  [pdf\(774.23 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


A wireless LAN (WLAN)-based Internet service, called NESPOT, of Korea Telecom (KT), the biggest telecommunication and Internet service company in Korea, has been operational since early 2002. As the numbers of subscribers and deployed access points (APs) increase, KT has been endeavoring to improve its service quality as well as the network management. In this paper, we introduce a joint effort between Seoul National University (SNU) and KT to achieve it. We have been addressing two major issues ...

Keywords: IEEE 802.11, LAN, hotspot service, wireless internet service provider (WISP)

34 Enhancement of a WLAN-based internet service

Youngkyu Choi, Sekyu Park, Sunghyun Choi, Go Woon Lee, Jaehwan Lee, Hanwook Jung
June 2005 **Mobile Networks and Applications**, Volume 10 Issue 3

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(2.62 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A wireless LAN (WLAN)-based Internet service, called NESPOT, of Korea Telecom (KT), the biggest telecommunication and Internet service company in Korea, has been operational since early 2002. As the numbers of subscribers and deployed access points (APs) increase, KT has been endeavoring to improve its service quality as well as the network management. In this paper, we introduce a joint effort between Seoul National University (SNU) and KT to achieve it. We have been addressing two major issues ...

Keywords: IEEE 802.11, WLAN, hotspot service, wireless internet service provider (WISP)

35 Staying secure in an insecure world: 802.1x secure wireless computer connectivity for students, faculty, and staff to the campus network

Steven K. Brawn, R. Mark Koan, Kelly Caye

October 2004 **Proceedings of the 32nd annual ACM SIGUCCS conference on User services SIGUCCS '04**

Publisher: ACM Press

Full text available:  [pdf\(398.37 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

During this past year, the ASU West IT Department has successfully implemented network connectivity throughout the campus for users who desire to use their computers in places other than the usual designated office spaces and computer labs. Students and staff alike can now access their network file shares, check email, browse the web, and work on projects while sitting in the cafeteria, out on the grass, or under the shade of a tree.

With the constant threat of virus attacks, Trojans, ...


Keywords: 802.1x, PEAP, VPN, authentication, dynamic WEP, wireless network

36 Mobile IP and the IETF

Charles E. Perkins

April 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 2

Publisher: ACM Press


Full text available:  [pdf\(631.96 KB\)](#)Additional Information: [full citation](#), [index terms](#)

37 An event mechanism for Linux

Frederic Rossi

July 2003 **Linux Journal**, Volume 2003 Issue 111

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(18.85 KB\)](#)Additional Information: [full citation](#), [abstract](#)

To meet the demands of telecom applications, a plan for a new level of cooperation between applications and the kernel.

**Applications: Digital media and entertainment service delivery platform**

Christopher J. Pavlovski, Quentin Staes-Polet

November 2005 **Proceedings of the first ACM international workshop on Multimedia service composition MSC '05**

Publisher: ACM Press

Full text available: pdf(415.65 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The emergence of broadband networks, for mobile and fixed environments, has stimulated the multimedia market for the delivery of enriched digital media and entertainment services. A key problem for institutions attempting to capitalize on these new channels for service delivery is a capability to deploy many multimedia services rapidly and cost effectively. The naive technique is to deploy such solutions independently as so called point solutions. The strategic approach is the development o ...

Keywords: IP multimedia systems, digital media, reference architecture, service delivery platform, tripleplay, web service gateway

39 **Mobile and pervasive commerce track: A multi-layer approach to the study of inter-organizational wireless infrastructure**

Carleen Maitland, Annemijn van Gorp, Ankur Tarnacha, Rudi Westerveld

August 2006 **Proceedings of the 8th international conference on Electronic commerce: The new e-commerce: innovations for conquering current barriers, obstacles and limitations to conducting successful business on the internet ICEC '06**

Publisher: ACM Press

Full text available: pdf(513.32 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The supply side of the pervasive commerce market will rely on a mix of wireless technologies that include public cellular and wireless networks as well as the wireless networks owned and operated by individuals and organizations. The integration of these diverse networks constitutes a significant milestone in the evolution of toward pervasive commerce. This research reports on results from a trial involving public cellular/private wireless network integration. Based on insights derived from the ...

Keywords: inter-organizational systems, pervasive commerce, wireless infrastructure

40 **PARDIS: CORBA-based architecture for application-level parallel distributed computation**

Katarzyna Keahey, Dennis Gannon

November 1997 **Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '97**

Publisher: ACM Press

Full text available: pdf(90.39 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Modern technology provides the infrastructure necessary to develop distributed applications capable of using the power of multiple supercomputing resources and exploiting their diversity. The performance potential offered by distributed supercomputing is enormous, but it is hard to realize due to the complexity of programming in such environments. In this paper we introduce PARDIS, a system designed to overcome this challenge, based on ideas underlying the Common Object Request Broker Architectu ...

Keywords: CORBA, distributed, heterogeneous, interoperability, metacomputing, parallel

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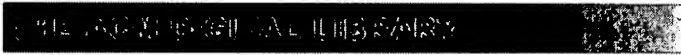


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Relevance scale ☐ ☐ ☐ ☐ ☐41 [NGOSS-based convergent OSS framework toward business agility: KT case](#)
 Cheol-Seong Kim, Kisang Ok, Daniel W. Hong, Byungsoo Chang, Yoon-Hak Bang
 November 2006 **International Journal of Network Management**, Volume 16 Issue 6

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(440.68 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recently, most wireline telecom service providers have confronted a decrease of subscribers because wireless service providers are making inroads into traditional telecom markets and gaining tangible net earnings. To overcome a severely competitive business environment, wireline service providers strive to change their service infrastructure from a network-focused service to a value-added and customer-focused one that can create new value and markets. This also entails a paradigm shift in operat ...

42 [IP micro-mobility protocols](#)

Andrew T. Campbell, Javier Gomez-Castellanos

 October 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 4

Publisher: ACM Press

Full text available: pdf(1.12 MB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The IETF Mobile IP Working Group is discussing a number of enhancements to the base protocol to reduce the latency, packet loss and signaling overhead experienced during handoff. In this article, we discuss a number of "micro-mobility protocols" that extend Mobile IP with fast handoff and paging capabilities. The aim of this article is not to provide an exhaustive survey of these protocols. Rather, we discuss the motivation behind micro-mobility, present common characteristics that a number of p ...

43 [Security analysis: Analysis of the 802.11i 4-way handshake](#)

Changhua He, John C. Mitchell

 October 2004 **Proceedings of the 2004 ACM workshop on Wireless security WiSe '04**

Publisher: ACM Press

Full text available: pdf(328.36 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

802.11i is an IEEE standard designed to provide enhanced MAC security in wireless networks. The authentication process involves three entities: the supplicant (wireless device), the authenticator (access point), and the authentication server (e.g., a backend RADIUS server). A 4-Way Handshake must be executed between the supplicant and the authenticator to derive a fresh pairwise key and/or group key for subsequent data transmissions. We analyze the 4-Way Handshake protocol using a finite-state ve ...

Keywords: 4-way handshake, 802.11i, WLAN, authentication, denial-of-service, key management

44 [T3-D: WAN's and PAN's symposium: Performance study of fast BSS transition using IEEE 802.11r](#)

Sangeetha Bangolae, Carol Bell, Emily Qi

July 2006 **Proceeding of the 2006 international conference on Communications and mobile computing IWCMC '06**

Publisher: ACM Press

Full text available:  pdf(1.64 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The mass deployment of IEEE 802.11 based wireless local area networks (WLAN), and increased sales in portable devices supporting WLAN, have resulted in an urgent need to support real time applications while wireless users are on the move. This critical support necessitates research into current WLAN roaming capabilities. This paper discusses how WLAN roaming capabilities are affected by new standards such as security (IEEE 802.11i) and quality of service (IEEE 802.11e), and describes the new IEE ...


Keywords: IEEE 802.11r standard, fast BSS transition, fast roaming, performance, wireless LAN

45 **Posters: AAA in vehicular communication on highways with ad hoc networking support: a proposed architecture**

Hasnaa Moustafa, Gilles Bourdon, Yvon Gourhant

September 2005 **Proceedings of the 2nd ACM international workshop on Vehicular ad hoc networks VANET '05**

Publisher: ACM Press

Full text available:  pdf(157.96 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper proposes a novel architecture for vehicular communication on highways, providing an integrated solution considering the benefit of both mobile clients and service providers. Firstly, we define the services offered by the provider, extending from safety messages' transfer to Internet connectivity. Then we develop an AAA scheme, which adapts 802.11i to the vehicular environment employing EAP-Kerberos and EAP-TLS authenticating protocols. To achieve convenient information routing, we pro ...


Keywords: AAA, ad hoc networks, inter-vehicular routing, security, vehicular communications

46 **Web based multimedia services: An overlay network providing application-aware multimedia services**

Maarten Wijnants, Bart Cornelissen, Wim Lamotte, Bart De Vleschauwer

October 2006 **Proceedings of the 2nd international workshop on Advanced architectures and algorithms for internet delivery and applications AAA-IDEA '06**

Publisher: ACM Press

Full text available:  pdf(179.48 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Real-time streaming of multimedia content is increasingly becoming a crucial part of networked applications. A logical consequence of this evolution is a growing demand for services that can be applied on these multimedia streams. In this paper, we present our overlay network which provides such multimedia services. Although these services are application-aware and can thus exploit application-specific knowledge, the overlay network itself is completely generic. Consequently, multiple applicatio ...

Keywords: application-aware service provision, overlay network, proxy server, quality of experience, real-time multimedia streaming


47 **Mobility management in web based systems: Towards user-friendly mobile browsing**

Timo Lehtonen, Said Benamar, Vesa Laamanen, Ilkka Luoma, Olli Ruotsalainen, Jaakko

Salonen, Tommi MikkonenP

October 2006 **Proceedings of the 2nd international workshop on Advanced architectures and algorithms for internet delivery and applications AAA-IDEA '06**

Publisher: ACM Press

Full text available:  pdf(159.94 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

User experience of Web browsing on a mobile device is affected by low bandwidth, low CPU performance and small screen. This is not an essential technical restriction, as some help can be provided by running the browser engine on the server side instead of the mobile client. The approach of Tut-Mobi system introduced in this paper is such that the server side component residing in the fixed network processes the page to a format that consists of page miniature and page element data. Using this me ...

Keywords: content adaption, human computer interaction, mobile web browsing

48 Wireless network security I: Common data security network (CDSN)



Aftab Ahmad, Mona El-Kadi Rizvi, Stephan Olariu

October 2005 **Proceedings of the 1st ACM international workshop on Quality of service & security in wireless and mobile networks Q2SWinet '05**

Publisher: ACM Press

Full text available: pdf(287.12 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present the idea of using a separate network that processes and enforces security in a data network. We briefly discuss various components of such a network, called common data security network (CDSN). We use the example of the IEEE 802.11i to determine one of the link level metrics of the proposed network, the fractional overhead for IEEE 802.1X and temporal key integrity protocol (TKIP).

Keywords: IEEE 802.11i, TKIP, common data security, security architecture, security plane, wireless LANs

49 Networking and mobile computing: Improving quality of service for streaming multimedia applications in ubiquitous mobile environment



Radhika Jain

March 2005 **Proceedings of the 43rd annual Southeast regional conference - Volume 2 ACM-SE 43**

Publisher: ACM Press

Full text available: pdf(494.90 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Despite the great potential demonstrated by the multimedia-rich data in various business applications, none of the prior research has addressed the design of high-quality access to the multimedia content in heterogeneous wireless networking environment. In this research, we have presented a partial pre-retrieval and buffering scheme to improve various quality of service (QoS) parameters for multimedia content for in such context. Specifically it addresses the three important QoS parameters namely ...

Keywords: QoS, mobile multimedia, quality of service, streaming multimedia, ubiquitous computing

50 Web based multimedia services: Efficient caching of video content to an architecture of proxies according to a frequency-based cache management policy



Anna Satsiou, Michael Paterakis

October 2006 **Proceedings of the 2nd international workshop on Advanced architectures and algorithms for internet delivery and applications AAA-IDEA '06**

Publisher: ACM Press

Full text available: pdf(259.03 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper focuses on an environment of more than one proxy server that serve homogeneous or even heterogeneous client preferences for streaming of video files. Under a hierarchical tree topology system of proxies, the prefixes of the videos are stored in small size proxy caches each located very close to the corresponding client community, while larger caches located further away from the client communities are used to cache the latter segments of the videos requested by more than one client community ...

Keywords: caching architecture, frequency-based cache management policies, segment-based video caching, video caching proxies

51 Roaming and handoff management: MobileNAT: a new technique for mobility across heterogeneous address spaces



Milind Buddhikot, Adiseshu Hari, Kundan Singh, Scott Miller

September 2003 **Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '03**

Publisher: ACM Press

Full text available: pdf(303.26 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose a new network layer mobility architecture called MobileNAT to efficiently

support micro and macro-mobility in and across heterogeneous address spaces common in emerging public networks. The key ideas in this architecture are as follows: (1) Use of two IP addresses -- an invariant virtual IP address for host identification at the application layer and an actual routable address at the network layer that changes due to mobility. Since physical address has routing significance only withi ...

Keywords: MobileNAT, mobility

52 AAA, security and privacy: UniWireless: a distributed open access network



Danilo Severina, Mauro Brunato, Alessandro Ordine, Luca Veltri

September 2006

Proceedings of the 4th international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '06

Publisher: ACM Press

Full text available: pdf(272.06 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we describe the UniWireless framework, a nationwide distributed Open Access testbed that involves different research units collaborating in the TWELVE national project. The Uni-Fy AAA system, used to manage the collection of involved hotspots, is also discussed. The most important aspect of the UniWireless framework is its compatibility with different authentication mechanisms; while most access networks enforce a particular authentication protocol upon their users, in the UniWirele ...

Keywords: access gateways, authentication, authorization, open access networks, wireless networks

53 Security issues for wireless networks: Secure access to IP multimedia services using generic bootstrapping architecture (GBA) for 3G & beyond mobile networks



Muhammad Sher, Thomas Magedanz

October 2006

Proceedings of the 2nd ACM international workshop on Quality of service & security for wireless and mobile networks Q2SWinet '06

Publisher: ACM Press

Full text available: pdf(541.17 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The IP Multimedia Subsystem (IMS) defined by Third Generation Partnership Projects (3GPP and 3GPP2) is a technology designed to provide robust multimedia services across roaming boundaries and over diverse access technologies with promising features like quality-of-service (QoS), reliability and security. The IMS defines an overlay service architecture that merges the paradigms and technologies of the Internet with the cellular and fixed telecommunication worlds. Its architecture enables the eff ...

Keywords: IP multimedia system, authentication proxy, generic authentication architecture, generic bootstrapping architecture, security and privacy, transport layer security

54 Middleware Support for Context-Awareness in 4G Environments

Thomas Springer, Kay Kadner, Frank Steuer, Ming Yin

June 2006

Proceedings of the 2006 International Symposium on on World of Wireless, Mobile and Multimedia Networks WOWMOM '06

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Additional Information: [full citation](#), [abstract](#), [index terms](#)

Context-awareness is a key technology for adaptive software systems. While past and recent research effort investigated the gathering of low-level information, implementation- and domain-driven approaches for context frameworks and conceptual models of context, vertical approaches combining the aspects of modeling, and implementation are still missing. In this paper, we propose a scalable and distributed context service for integrating heterogeneous context sources in large-scale mobile environm ...

55 Mobility optimization: Deploying home agent load sharing in operational mobile IPv6 networks



Wolfgang Fritsche, Ivano Guardini

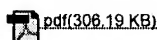
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pdf(306.19 KB)

[full citation, abstract, references, index terms](#)

Mobile IPv6 (MIPv6) is a protocol standardized by the Internet Engineering Task Force (IETF) in order to provide mobility support for roaming host systems. A key component within the MIPv6 functionality is the Home Agent (HA), a system at which roaming Mobile Nodes (MNs) register their current point of attachment to the Internet. In order to provide this mobility service to a high number of MNs, multiple HAs are likely to be deployed. However, also for other reasons more HAs might be useful, suc ...

Keywords: IPv6, bootstrapping, load sharing, mobility

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Novel infrastructures for web based systems: Versatile anycasting with mobile IPv6

Michal Szymaniak, Guillaume Pierre, Maarten van Steen

October 2006

Proceedings of the 2nd international workshop on Advanced architectures and algorithms for internet delivery and applications AAA-IDEA '06

Publisher: ACM Press

Full text available: pdf(180.05 KB)

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Anycasting was introduced to facilitate efficient communication between distributed Internet services and their clients, as it allows client requests to be automatically routed to nearby service instances. However, even though several any-cast implementations have been proposed, their various limitations prevent them from being widely adopted by large-scale distributed systems. This paper identifies the key limitations of existing anycast implementations, and proposes how to implement anycast suc ...

Keywords: anycast implementation, mobile IPv6

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Video demonstration session: Essistants

Christos Tryfonas, James Schumacher

November 2003

Proceedings of the eleventh ACM international conference on Multimedia MULTIMEDIA '03

Publisher: ACM Press

Full text available: pdf(53.65 KB)

Additional Information: [full citation, abstract, references, index terms](#)

One of the challenges the service providers currently face is the ability to introduce a variety of services at a minimal cost and impact to their customers. These services often become personalized as more and more content becomes available. The natural progression to the service/content explosion is a seamless user interface that remains consistent across the various services and devices. The Essistant architecture attempts to provide personalized services to the end users through a seamless m ...

Keywords: avatars, multimedia presentation, multimodal interfaces, service discovery

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MobileNAT: a new technique for mobility across heterogeneous address spaces

Milind Buddhikot, Adishesu Hari, Kundan Singh, Scott Miller

June 2005

Mobile Networks and Applications, Volume 10 Issue 3

Publisher: Kluwer Academic Publishers

Full text available: pdf(1.60 MB)

Additional Information: [full citation, abstract, references, index terms](#)

We propose a new network layer mobility architecture called MOBILENAT to efficiently support micro and macro-mobility in and across heterogeneous address spaces common in emerging public networks. The key ideas in this architecture are as follows: (1) Use of two IP addresses - an invariant virtual IP address for host identification at the application layer and an actual routable address at the network layer that changes due to mobility. Since physical address has routing significance only within ...

Keywords: MOBILENAT, design, experimentation, mobility

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Services: A mobility-aware broadcasting infrastructure for a wireless internet with hotspots

Cristian Hesselman, Henk Eertink, Ing Widya, Erik Huizer

September 2003

Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '03

Publisher: ACM Press

Full text available:  pdf(292.13 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we consider the problem of adaptively delivering live multimedia broadcasts (e.g., for applications such as TV, radio, or e-cinema) to a potentially large number of mobile hosts that roam about in a wireless internet with hotspots. We take a user-oriented approach based on an application-level delivery infrastructure consisting of and managed by (value-added) service providers. The service providers are mobility-aware and offer broadcasts in configurations that are optimized for w ...

Keywords: hotspots/overlays, mobility, multimedia broadcasting, negotiation

60



Traffic characterization: Characteristics of internet background radiation

Ruoming Pang, Vinod Yegneswaran, Paul Barford, Vern Paxson, Larry Peterson

October 2004 **Proceedings of the 4th ACM SIGCOMM conference on Internet measurement IMC '04**

Publisher: ACM Press

Full text available:  pdf(398.12 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Monitoring any portion of the Internet address space reveals incessant activity. This holds even when monitoring traffic sent to unused addresses, which we term "background radiation." Background radiation reflects fundamentally nonproductive traffic, either malicious (flooding backscatter, scans for vulnerabilities, worms) or benign (misconfigurations). While the general presence of background radiation is well known to the network operator community, its nature has yet to be broadly charac ...

Keywords: honeypot, internet background radiation, network telescope

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